



Water-Data Report 2008

0140940200 HAYS MILL CREEK NEAR CHESILHURST, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°45'02", long 74°50'27" referenced to North American Datum of 1983, Waterford Township, Camden County, NJ, Hydrologic Unit 02040301, at bridge on Tremont Avenue in Wharton State Forest, 0.3 mi southeast from Hunt Boulevard (Maple Island Road), 0.5 mi upstream from Cooper Branch, and 2.0 mi northeast of Chesilhurst.

DRAINAGE AREA.--7.13 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1974-80, 1991 to current year. Annual maximum, water years 1976-79.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Jan 25, 2008	9.86
Apr 18, 2008	8.87
Jun 30, 2008	5.71
Sep 3, 2008	3.88

0140940200 HAYS MILL CREEK NEAR CHESILHURST, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991-01, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 14.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dis- solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, μS/cm 25 degC (00095)	Temper- ature, wat unf air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Nov 28...	1100	1.4	.121	.095	772	9.3	78	6.5	--	6.6	7.4	22	4.75
Feb 13...	1000	3.2	.229	.179	750	10.5	84	6.0	341	10.7	6.1	29	6.89
May 20...	1000	1.5	.265	.207	750	8.5	78	6.5	133	12.0	11.8	20	4.47
Aug 05...	0900	2.4	.089	.071	760	8.2	88	6.3	136	21.2	18.0	20	4.53

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed pt,	Chlor- ide, lab, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents (70301)	Residue on evap. at 180degC (70300)	Residue total non- filter- able, wat flt mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 28...	2.39	2.35	15.3	9	25.2	<.12	6.3	7.45	75	92	2	.18	.024
Feb 13...	2.98	2.36	63.1	7	112	<.12	4.9	8.53	E211	223	4	.26	.051
May 20...	2.14	1.75	14.7	11	23.0	<.12	4.4	5.88	68	88	2	.27	.021
Aug 05...	2.21	1.97	14.5	12	24.1	<.12	5.1	4.78	E69	76	1	.19	E.007

0140940200 HAYS MILL CREEK NEAR CHESILHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water filtrd, mg/L as N (00631)	Particulate nitrogen, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd (00600)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd, mg/L as P (00665)	Total carbon, suspnd sediment, mg/L (00694)	Inorganic carbon, suspnd sediment, total, mg/L (00688)	Organic carbon, suspnd sediment, total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd, µg/L (01002)
Nov 28...	1.28	E.02	1.5	E1.5	<.010	E.006	E.007	.2	<.04	.2	2.9	--	--
Feb 13...	1.26	.06	1.5	1.6	E.008	E.005	.017	.3	<.04	.3	4.8	.32	E.45
May 20...	1.11	.05	1.4	1.4	<.010	E.006	.011	.4	<.04	.4	4.8	--	--
Aug 05...	1.04	.08	1.2	1.3	E.003	E.006	.011	.6	<.04	.6	2.1	.20	<.60

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Barium, water, unfltrd recover -able, µg/L (01007)	Beryllium, water, unfltrd recover -able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium, water, unfltrd recover -able, µg/L (01027)	Chromium, water, unfltrd recover -able, µg/L (01034)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Manganese, water, unfltrd recover -able, µg/L (01055)	Mercury, water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01067)
Nov 28...	--	--	22	--	--	--	--	122	--	--	--	--	--
Feb 13...	65.1	.06	20	24	.09	E.38	E1.1	--	438	1.54	38.8	.019	1.5
May 20...	--	--	22	--	--	--	--	--	--	--	--	--	--
Aug 05...	45.2	<.04	22	20	.02	<.40	E.93	--	489	.92	34.6	E.005	.60

0140940200 HAYS MILL CREEK NEAR CHESILHURST, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 5 of 5

[Remark codes: <, less than; E, estimated.]

Date	Selen- ium, water, unfiltrd	Silver, water, recover	Zinc, water, recover
	μg/L (01147)	μg/L (01077)	μg/L (01092)
Nov			
28...	--	--	--
Feb			
13...	.15	<.02	13.0
May			
20...	--	--	--
Aug			
05...	.09	<.02	3.0